

## ABSTRACT

A voltage generating circuit comprising a capacitor (4), a ferroelectric capacitor (6) serially connected to the capacitor (4), an output terminal (11), a capacitor (10) which grounds the output terminal (11), a supply voltage supplying terminal (13), a switch (1) which connects the supply voltage supplying terminal (13) and the connecting node (N1) of the two capacitors (4, 6), and a switch (9) which connects the connecting node (N1) and output terminal (11); wherein during a first period, with the two switches (1) and (9) placed in the OFF state, a terminal (3) is grounded and a terminal (7) is provided with a supply voltage; wherein during a second period, the terminal (3) is provided with the supply voltage and the switch (9) is placed in the ON state; wherein during a third period, the switch (9) is placed in the OFF state, the switch (1) is placed in the ON state, and the terminal (7) is grounded; wherein during a fourth period, the terminal (7) is provided with the supply voltage; and wherein thereafter the first through fourth periods are repeated.